

(FILE 'HOME' ENTERED AT 07:49:19 ON 14 MAY 2004)

FILE 'MEDLINE, AGRICOLA, CAPLUS, BIOSIS, EMBASE, WPIDS' ENTERED AT  
07:49:50 ON 14 MAY 2004

L1        0 S (2.7.6.1 OR (RIBOSE-PHOSPHATE ADJ PYROPHOSPHOKINASE) OR (PRPP  
L2        0 S (2.7.6.1 OR (RIBOSE-PHOSPHATE (W) PYROPHOSPHOKINASE) OR (PRPP  
L3        1 S ((5-PHOSPHORIBOSYL-1-PYROPHOSPHATE (W) SYNTHETASE) OR (5-PHOS  
L4        0 S ((PYROPHOSPHORIBOSYLPHOSPHATE (W) SYNTHETASE) OR (RIBOPHOSPA

FILE 'REGISTRY' ENTERED AT 08:03:23 ON 14 MAY 2004

L5        0 S (PRPP(W)SYNTHETASE)/CN  
L6        1 S 9015-83-2

FILE 'MEDLINE, AGRICOLA, CAPLUS, BIOSIS, EMBASE, WPIDS' ENTERED AT  
08:06:19 ON 14 MAY 2004

L7        1 S L6 AND GOSSYPII  
L8        150 S L6 AND PURIF?  
L9        90 DUP REM L8 (60 DUPLICATES REMOVED)  
L10      2 S L9 AND (YEAST OR FUNGI OR FUNGUS)

FILE 'CAPLUS' ENTERED AT 08:13:09 ON 14 MAY 2004

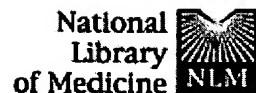
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L11      E POMPEJUS M/AU 25  
          3 S (E4) AND (GOSSYPII)  
          E SEULBERGER H/AU 25  
L12      4 S (E3 OR E4) AND (GOSSYPII)  
          E HOFFKEN H/AU 25  
L13      1 S (E3 OR E4 OR E5) AND (GOSSYPII)  
          E DOVAL J L/AU 25  
          E DOVAL J/AU 25  
L14      0 S (E3 OR E6) AND (GOSSYPII)  
          E JIMENEZ A/AU 25  
L15      1 S (E3 OR E39) AND (GOSSYPII)  
          E GARCIA MARIA/AU 25  
L16      0 S (E3 OR E4 OR E8 OR E11) AND (GOSSYPII)  
L17      0 S (E3 OR E4 OR E8 OR E11) AND (GOSSYPII)  
L18      1 S (L11 AND L12 AND L13 AND L15) AND L6  
L19      1 S (L11 OR L12 OR L13 OR L15) AND L6

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SRN

	Type	Hits	Search Text	DBs	Time Stamp
1	BRS	2	6391603.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/05/13 15:24
2	BRS	34	phosphoribosylpyrophosphate adj synthetase	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/05/13 16:01
3	BRS	14013	2.7.6.1 or (ribose-phosphate adj pyrophosphokinase) or (PRPP adj synthetase) or (phosphoribosylpyrophosphate adj synthetase) or (PPRIBP adj synthetase) or (PP-ribose near3 synthetase) or (5-phosphoribosyl-1-pyrophosphate synthetase) or (5-phosphoribose adj pyrophosphorylase) or (5-phosphoribosyl-alpha-1-pyrophosphate adj synthetase) or (phosphoribosyl-diphosphate adj synthetase) or (phosphoribosylpyrophosphate adj synthetase) or (pyrophosphoribosylphosphate adj synthetase) or (ribophosphate adj pyrophosphokinase) or (ribose-5-phosphate adj pyrophosphokinase)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/05/13 16:08
4	BRS	6	((2.7.6.1 or (ribose-phosphate adj pyrophosphokinase) or (PRPP adj synthetase) or (phosphoribosylpyrophosphate adj synthetase) or (PPRIBP adj synthetase) or (PP-ribose near3 synthetase) or (5-phosphoribosyl-1-pyrophosphate synthetase) or (5-phosphoribose adj pyrophosphorylase) or (5-phosphoribosyl-alpha-1-pyrophosphate adj synthetase) or (phosphoribosyl-diphosphate adj synthetase) or (phosphoribosylpyrophosphate adj synthetase) or (pyrophosphoribosylpyrophosphate adj synthetase) or (ribophosphate adj pyrophosphokinase)) and (gossypii) and (pompejus.in. or seuberger.in. or hoffken.in. or doval.in. or jimenez.in. or garcia.in.)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/05/13 16:09
5	BRS	49	(2.7.6.1 or (ribose-phosphate adj pyrophosphokinase) or (PRPP adj synthetase) or (phosphoribosylpyrophosphate adj synthetase) or (PPRIBP adj synthetase) or (PP-ribose near3 synthetase) or (5-phosphoribosyl-1-pyrophosphate synthetase) or (5-phosphoribose adj pyrophosphorylase) or (5-phosphoribosyl-alpha-1-pyrophosphate adj synthetase) or (phosphoribosyl-diphosphate adj synthetase) or (phosphoribosylpyrophosphate adj synthetase) or (pyrophosphoribosylphosphate adj synthetase) or (ribophosphate adj pyrophosphokinase) or (ribose-5-phosphate adj pyrophosphokinase) and (gossypii)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/05/13 16:12



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	#15 Search gossypii and synthetase		08:27:52	2
E-Utilities	#13 Search gossypii and synthase		08:27:18	3
PubMed Services	#11 Related Articles for PubMed (Select 14020753)		08:25:14	210
Journals Database	#7 Search gossypii		08:24:53	111
MeSH Database	#9 Search #7 and purification		08:24:18	13
Single Citation Matcher	#6 Related Articles for PubMed (Select 2169413)		08:22:39	126
Batch Citation Matcher	#4 Search #1 AND purified		08:22:08	28
Clinical Queries	#2 Search #1 AND purification		08:21:24	36
LinkOut	#1 Search 2.7.6.1[EC/RN Number] Limits: ignored		08:09:16	379
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May 12 2004 06:43:50

**IUBMB Enzyme Nomenclature****EC 2.5.1.9**

**Common name:** riboflavin synthase

**Reaction:** 2 6,7-dimethyl-8-(1-D-ribityl)lumazine = riboflavin + 4-(1-D-ribitylamino)-5-amino-2,6-dihydroxypyrimidine

**Other name(s):** heavy riboflavin synthase; light riboflavin synthase; riboflavin synthetase; riboflavine synthase; riboflavine synthetase

**Systematic name:** 6,7-dimethyl-8-(1-D-ribityl)lumazine:6,7-dimethyl-8-(1-D-ribityl)lumazine 2,3-butanediyltransferase

**Comments:** A flavoprotein (riboflavin).

**Links to other databases:** [BRENDA](#), [EXPASY](#), [KEGG](#), [ERGO](#), CAS registry number: 9075-82-5

**References:**

1. Plaut, G.W.E. Studies on the nature of the enzymic conversion of 6,7-dimethyl-8-ribityllumazine to riboflavin. *J. Biol. Chem.* 238 (1963) 2225-2243.
2. Plaut, G.W.E. and Harvey, R.A. Riboflavin synthetase. *Methods Enzymol.* 18B (1971) 527-538.
3. Wacker, H., Harvey, R.A., Winestock, C.H. and Plaut, G.W.E. 4-(1'-D-Ribitylamino)-5-amino-2,6-dihydroxypyrimidine, the second product of the riboflavin synthetase reaction. *J. Biol. Chem.* 239 (1964) 3493-3497.

[EC 2.5.1.9 created 1972]

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[Return to EC 2.5.1 home page](#)

[Return to EC 2.5 home page](#)

[Return to EC 2 home page](#)

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[Return to IUBMB Biochemical Nomenclature home page](#)